Contents of Volume 206, 1980

No. 1 issued on February 27, 1980

A.J.H. de Ruiter: Changes in Glomerular Structure after Sexual Maturation and Seawater Adaptation in Males of the Euryhaline Teleost *Gasterosteus aculeatus* L. 1

W. Weber, H. Gras: Ultrastructural Observations on Changes in Cell Shape in Chromatophores of the Sea Urchin *Centrostephanus longispinus* 21

P.J. Sheridan, D.C. Herbert: Nuclear Uptake and Retention of Androgen by the Pituitary Gland of the Hamster and the Rat 35

B.H. Hwang, J. Jew, T.H. Williams: Changes Induced by 6-Hydroxydopamine in the Paraventricular Nucleus. A Correlated Fluorescence Microscopic/Electron Microscopic Evaluation 41

F. Koyanagi, H. Nishiyama: Phagocytosis of Spermatozoa by the Ovum of the Domestic Fowl, *Gallus gallus*, at the Time of Fertilization 55

R. Taugner, A. Schiller: Gap Junctions on Myoepithelial Cells 65

L.E. Ericson: Inhibition of Intracellular Protein Transport in the Mouse Exocrine Pancreas Induced by Vinblastine 73

C. Buchholz, D. Adelung: The Ultrastructural Basis of Steroid Production in the Y-Organ and the Mandibular Organ of the Crabs *Hemigrapsus nudus* (Dana) and *Carcinus maenas* L. 83

M. Schliwa, G. Fleissner: The Lateral Eyes of the Scorpion, *Androctonus australis* 95

M.M. Bird: The Morphology of Synaptic Profiles in Explants of Foetal and Neonatal Mouse Cerebral Cortex Maintained in a Magnesium-Enriched Environment 115

J.E. Kuster: Fine Structure of the Compound Eyes and Interfacetal Mechanoreceptors of *Cicindela tranquebarica* Herbst (Coleoptera: Cicindelidae) 123

D.R. Ciocca: Scanning Electron Microscopy of the Cleft of the Rat Pituitary 139

R.S. Petralia, A.A. Sorensen, S.B. Vinson: The Labial Gland System of Larvae of the Imported Fire Ant, *Solenopsis invicta* Buren. Ultrastructure and Enzyme Analysis 145

S. Bonner-Weir, A.A. Like: A Dual Population of Islets of Langerhans in Bovine Pancreas 157

No. 2 issued on March 5, 1980

Y. Sano, Y. Murabe: Morphological and Functional Peculiarities of Mesenchymal Cells in the Pars Tuberalis of the Pituitary Gland 171

W. Gawlitta, W. Stockem, J. Wehland, K. Weber: Organization and Spatial Arrangement of Fluorescein-Labeled Native Actin Microinjected into Normal Locomoting and Experimentally Influenced *Amoeba proteus* 181

J. Alumets, R. Håkanson, G. Lundqvist, F. Sundler, J. Thorell: Ontogeny and Ultrastructure of Somatostatin and Calcitonin Cells in the Thyroid Gland of the Rat 193

P.E. Spoerri, P. Glees: Ultrastructural Changes in Neurons and Neuroglia of the Avian Telencephalon (Hyperstriatum Accessorium) Following Tri-Ortho-Cresyl-Phosphate Intoxication 203

877174

L.-M. Kerebel, M.-T. Le Cabellec: Enameloid in the Teleost Fish *Lophius*. An Ultrastructural Study 211

D.S. Williams: Ca^{++}-induced Structural Changes in Photoreceptor Microvilli of Diptera 225

K. Ishimura, K. Egawa, H. Fujita: Freeze-Fracture Images of Exocytosis and Endocytosis in Anterior Pituitary Cells of Rabbits and Mice 233

S.O.E. Ebbesson, D.L. Meyer: The Visual System of the Guitar Fish (*Rhinobatos productus*) 243

D.A. Dorsett, J.B. Roberts: A Transverse Tubular System and Neuromuscular Junctions in a Molluscan Unstriated Muscle 251

R.A. Cloney, L.C. Abbott: The Spermatozoa of Ascidians: Acrosome and Nuclear Envelope 261

T.A. Marino: A Scanning Electron Microscopic Study of the Atrioventricular Bundle of the Ferret 271

P. Böck: Adenine Nucleotides in the Carotid Body 279

S. Seyama, G.S. Pearl, Y. Takei: Ultrastructural Study of the Human Neurohypophysis. III. Vascular and Perivascular Structures 291

T. Gotow, P.H. Hashimoto: Fine Structure of Ependymal Cysts in and around the Area Postrema of the Rat 303

G.S. Hafner, G. Hammond-Soltis, T. Tokarski: Diurnal Changes of Lysosome-Related Bodies in the Crayfish Photoreceptor Cells 319

C.L. Gómez Dumm, M. Souto, J.J. Gagliardino: Mechanism of the Ultrastructural Changes Induced by Partial Hepatectomy in the STH Cells of Mice 333

No. 3 issued on March 20, 1980

P. Pévet, I. Ebels, D.F. Swaab, M.T. Mud, A. Arimura: Presence of AVT-, α-MSH-, LHRH- and Somatostatin-like Compounds in the Rat Pineal Gland and Their Relationship with the UMO5R Pineal Fraction. An Immunocytochemical Study 341

J. Barry: Immunofluorescence Study of LRH-producing Neurons in Prosimians (*Tupaia* and *Galago*) 355

H. Büssow: The Astrocytes in the Retina and Optic Nerve Head of Mammals: A Special Glia for the Ganglion Cell Axons 367

J.S. Trier, P.C. Moxey: Epithelial Cell Proliferation in the Intestine of the Winter Flounder, *Pseudopleuronectes americanus* 379

R.M. Klein, J.C. McKenzie: Pattern of Crypt Cell Proliferation in the Pre- and Post-Closure Ileum of the Neonatal Rat: Effects of Sympathectomy 387

I.A. Meinertzhagen, C.J. Armett-Kibel, K.L. Frizzell: The Number and Arrangement of Elements in the Lamina Cartridge of the Dragonfly *Sympetrum rubicundulum* 395

Y. Kameda, H. Shigemoto, A. Ikeda: Development and Cytodifferentiation of C Cell Complexes in Dog Fetal Thyroids. An Immunohistochemical Study Using Anti-Calcitonin, Anti-C-Thyroglobulin and Anti-19S Thyroglobulin Antisera 403

P. Pévet: The Pineal Gland of the Mole (*Talpa europaea* L.). VI. Fine Structure of Fetal Pinealocytes 417

P. Bachmann: Motility, Linear Arrangement and Cell-to-Cell Contact of Myogenic Cells Prior to Fusion 431

S. Ishii: The Ultrastructure of the Protonephridial Flame Cell of the Freshwater Planarian *Bdellocephala brunnea* 441

S. Ishii: The Ultrastructure of the Protonephridial Tubules of the Freshwater Planarian *Bdellocephala brunnea* 451

R.J. Morris, M.A. Ritter: Association of Thy-1 Cell Surface Differentiation Antigen with Certain Connective Tissues in vivo 459

F. Hajós: The Structure of Cleft Material in Spine Synapses of Rat Cerebral and Cerebellar Cortices 477

E.V. Raikova: Morphology, Ultrastructure, and Development of the Parasitic Larva and Its Surrounding Trophamnion of *Polypodium hydriforme* Ussov (Coelenterata) 487

Short Communications

M. Nykänen: Loose Connective Tissue of Rat Rete Testis. Fine Structure, Postnatal Development and Effect of Efferent Duct Ligation 501

R.J. Hart, D.J. Beadle, R.P. Botham: The Ultrastructure of Somatic Neuromuscular Junctions in the Tick *Amblyomma variegatum* (Fabr.) 505

Indexed in Current Contents